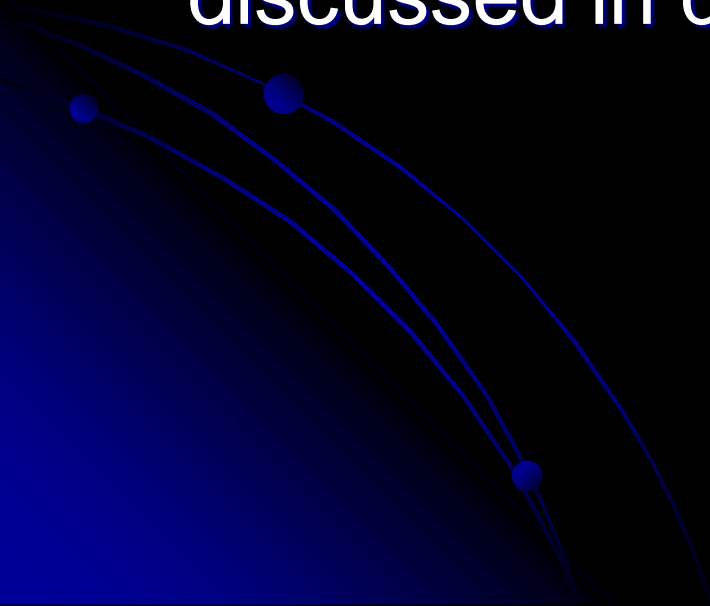


TREATMETN PLANNING FOR REPLACEMENT OF MISSING TEETH

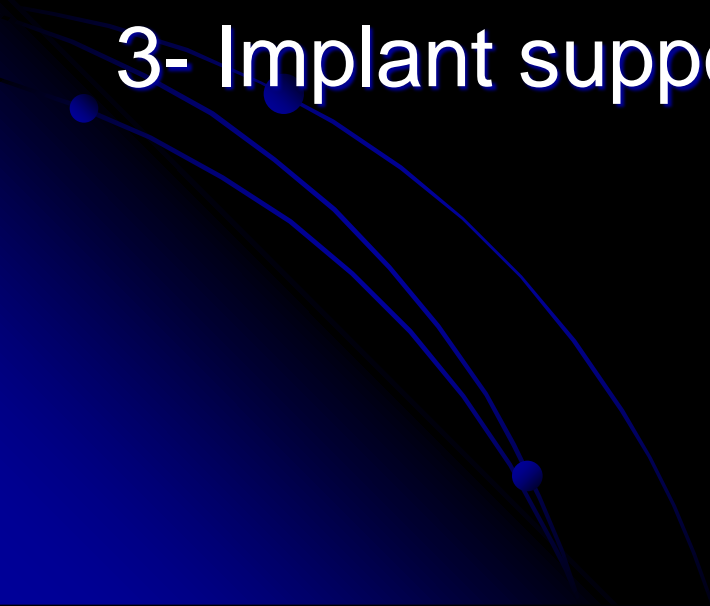
Dr. Ahmad El-Kouedi

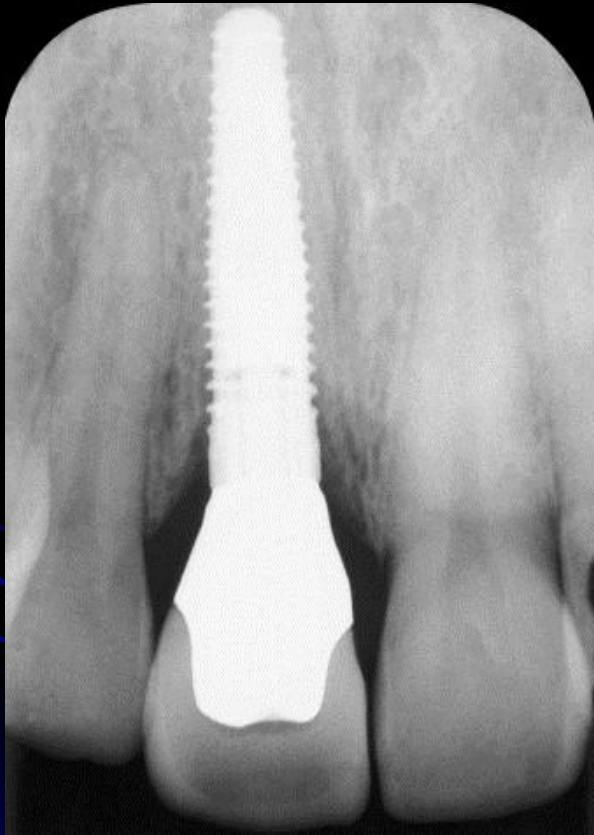
Lecturer of Fixed Prosthodontics



- Treatment planning is the procedure of formulating and developing a logical sequence of treatments in an attempt to restore esthetics and function for the patient.
 - The plan should be written, presented then discussed in detail with the patient.
- 

Methods of dental replacement

- 1- Removable Partial Denture
(acrylic or vitalium)
 - 2- Tooth supported FPD
(conventional, resin bonded)
 - 3- Implant supported FPD
- 



Factors affecting the selection of prosthesis type

- 1- Biomechanical considerations
- 2- Prospective abutments
- 3- Esthetic requirements
- 4- Patient's desire
- 5- Financial factors
- 6- Laboratory support
- 7- Patient's motivation and co-operation

Biomechanical Considerations

1- Decision to remove a tooth

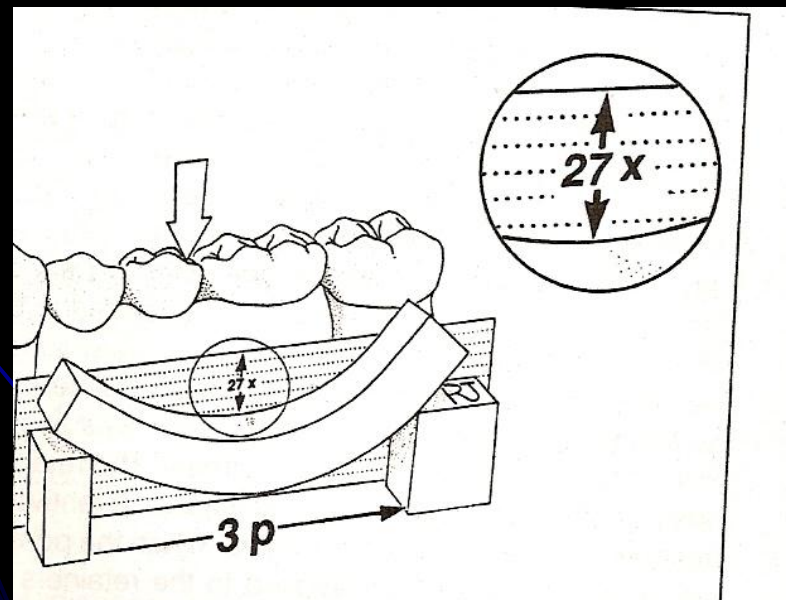
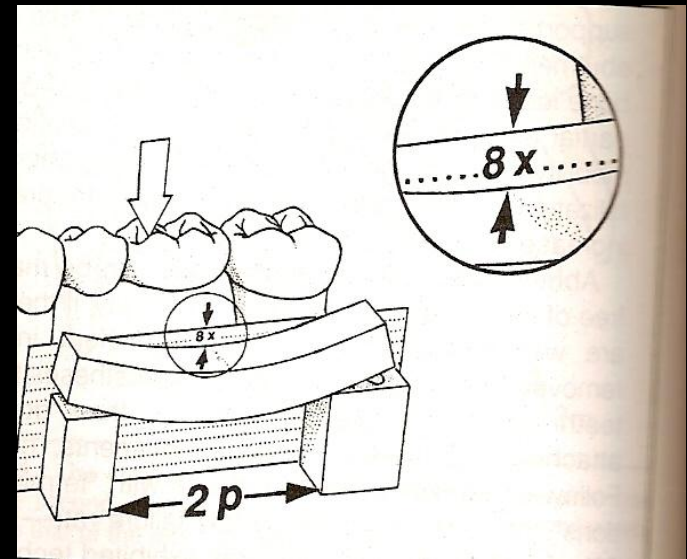
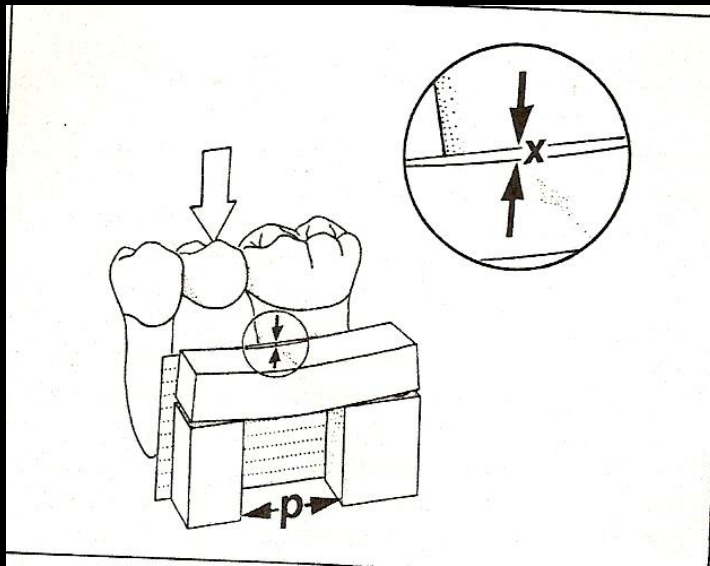
2- Edentulous span

i) distribution....no distal abutment requires a RPD, implant supported RPD, cantilever in special cases.

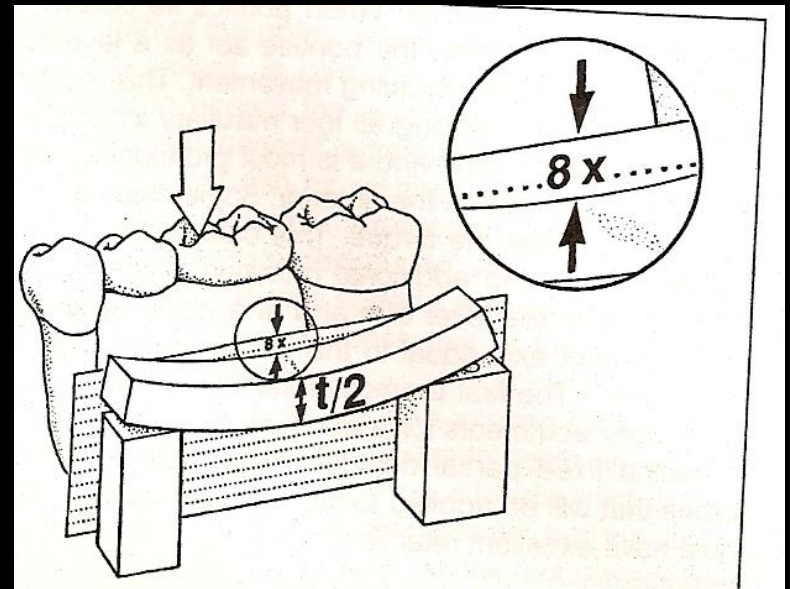
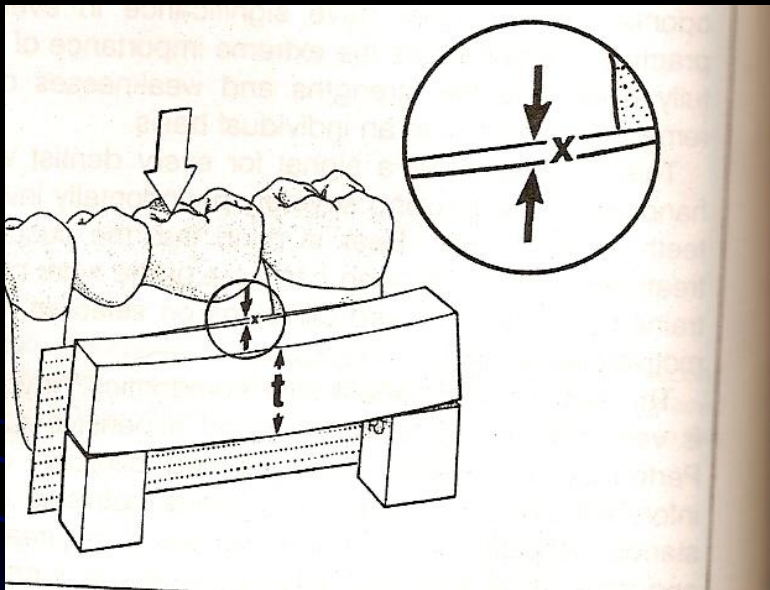
multiple spaces = several bridges or RPD

ii) Length

All FPD have some degree of bending...the longer the RPD the greater the bending



Different thicknesses



Excessive flexing will lead to:

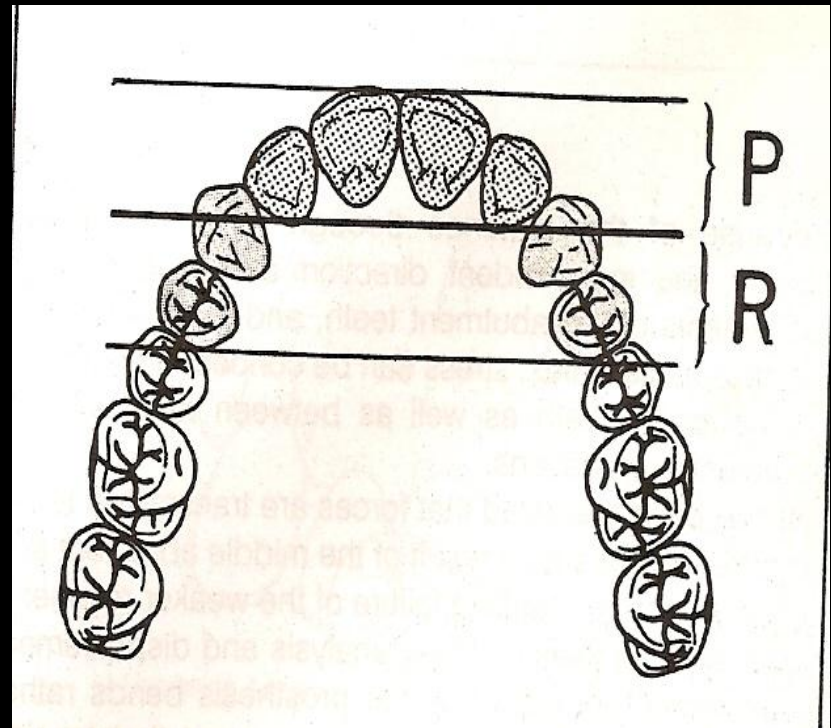
- fracture of porcelain
- connector breakage
- loosening of retainer

This happens when a FPD replaced more than 3 posterior teeth, long span FPD and short clinic crowns of abutments.

- Alternative? Implants if bone/ridge are good, or a RPD.

NB: can increase the size of the connector & use a higher strength alloy.


iii) Arch form



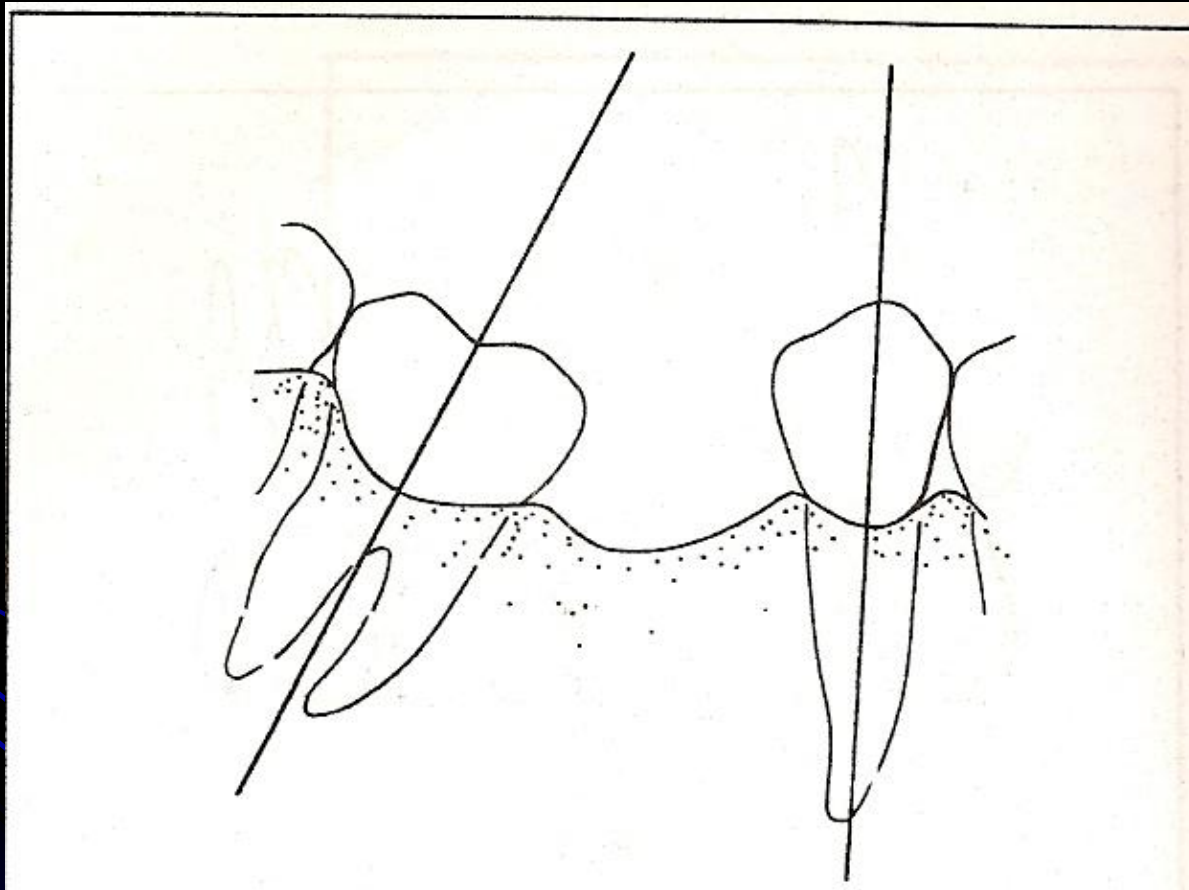
3- The Prospective Abutment

- Information should be obtained from clinical, radiographic and study cast examination.
 - a) Pulpal condition:
vital or non-vital, sound or carious?
 - b) Coronal variation and alignment
overerupted teeth: spot grinding or filling or intentional endo or extraction?
short crown: type of FPD? retainer type?
FL location? convergence?

c) mesial tilting of second lower molar
if the lower first mandibular molar is
extracted and no restoration is placed,
over time the space will close and the
angulation of the succeeding molar will
increase. This will prevent a path of
insertion or a tooth lock will occur with the
wisdom tooth.

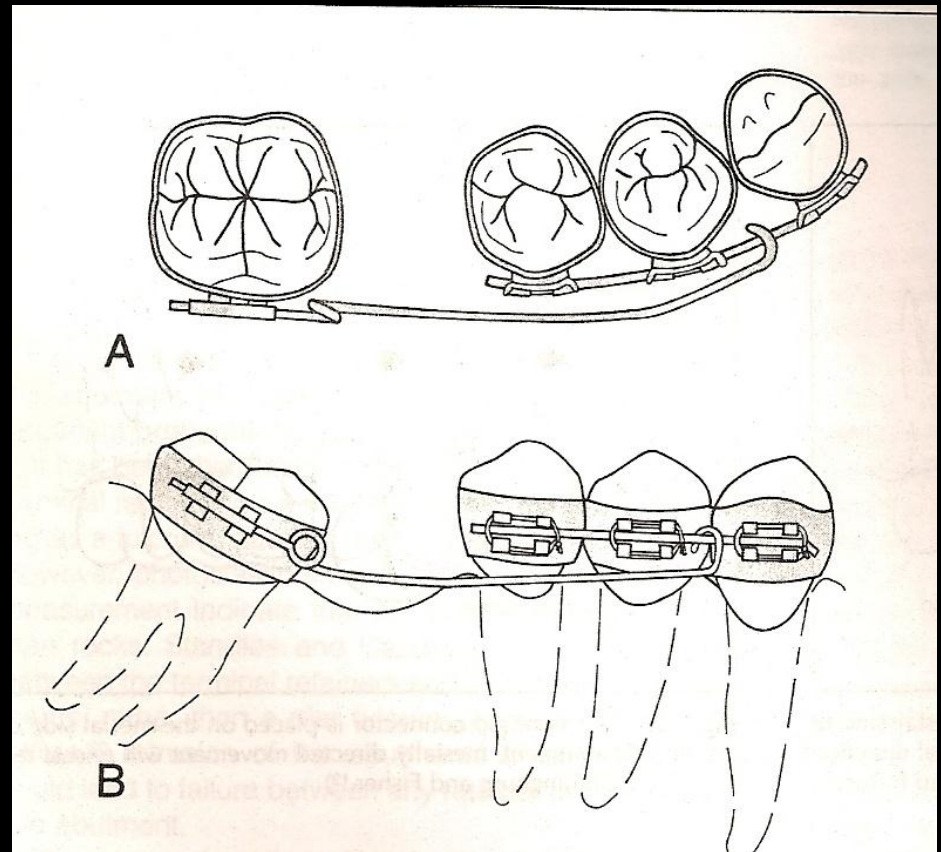


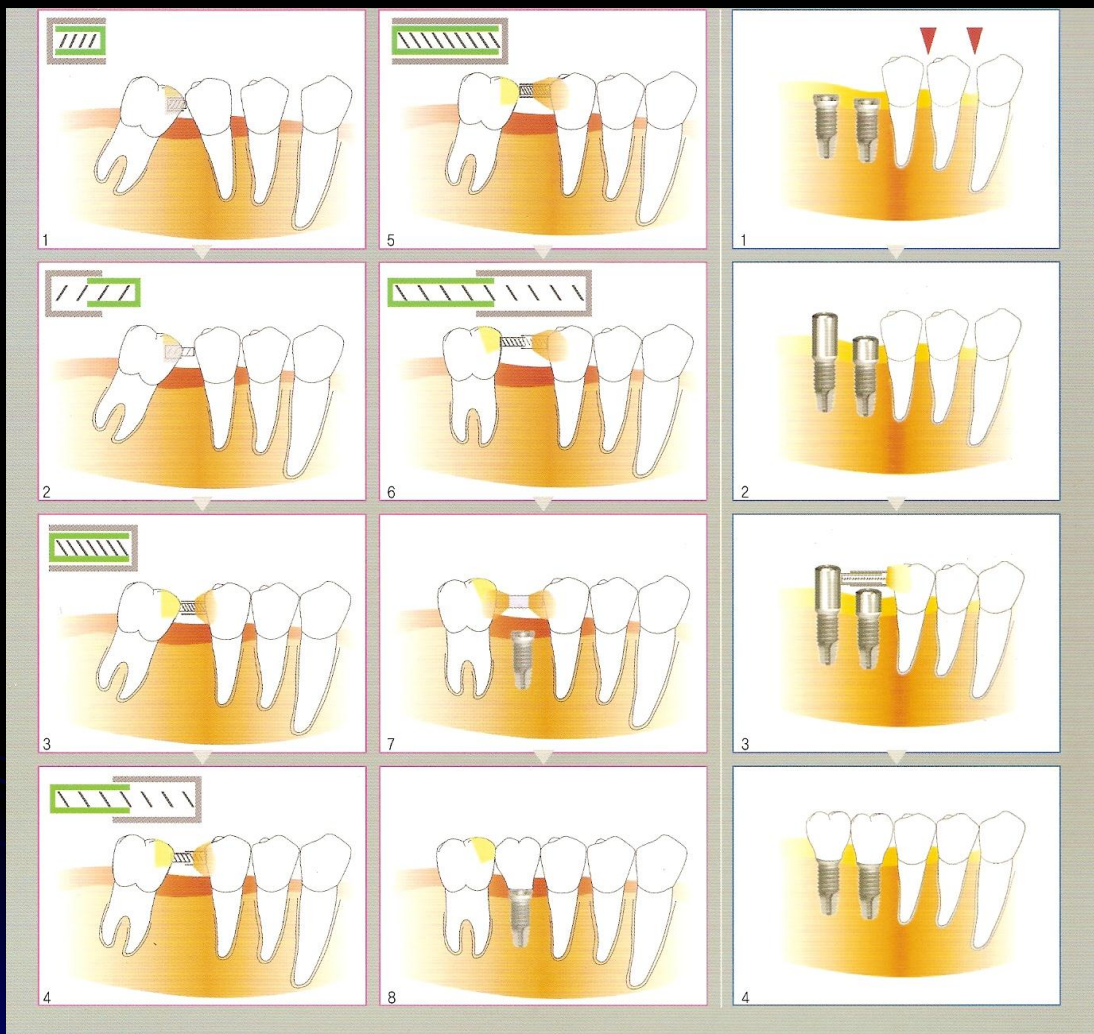
Lack of parallism between abutments



Modalities of Treatment

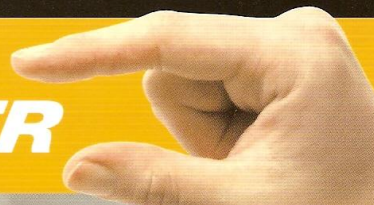
1- Orthodontic uprighting





The molar uprighting and making the interdental space are much faster and easier!

EZSPACER



● Making the interdental space before implanting



01 Pre-treatment



02 Panoramic view



03 Mounting the ezspacer



04 X-ray view after a week



05 Removing the ezspacer



06 Mounting the ezspacer with different sizes



07 Removing the ezspacer after 1 week-box form filing at the molar region



08 Etching at the premolar region



09 Mounting the other ezspacer



10 After 1 week



11 The picture of patient coming to the clinic after 2 weeks owing to his circumstance



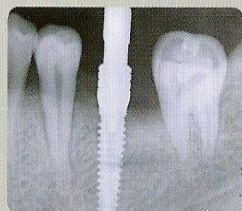
12 Implanting



13 Implanting



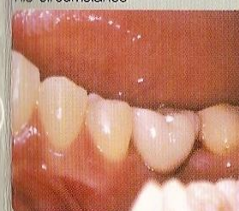
14 Panorama view after implanting



15 Taking the impression



16 Maintaining the space after taking the impression

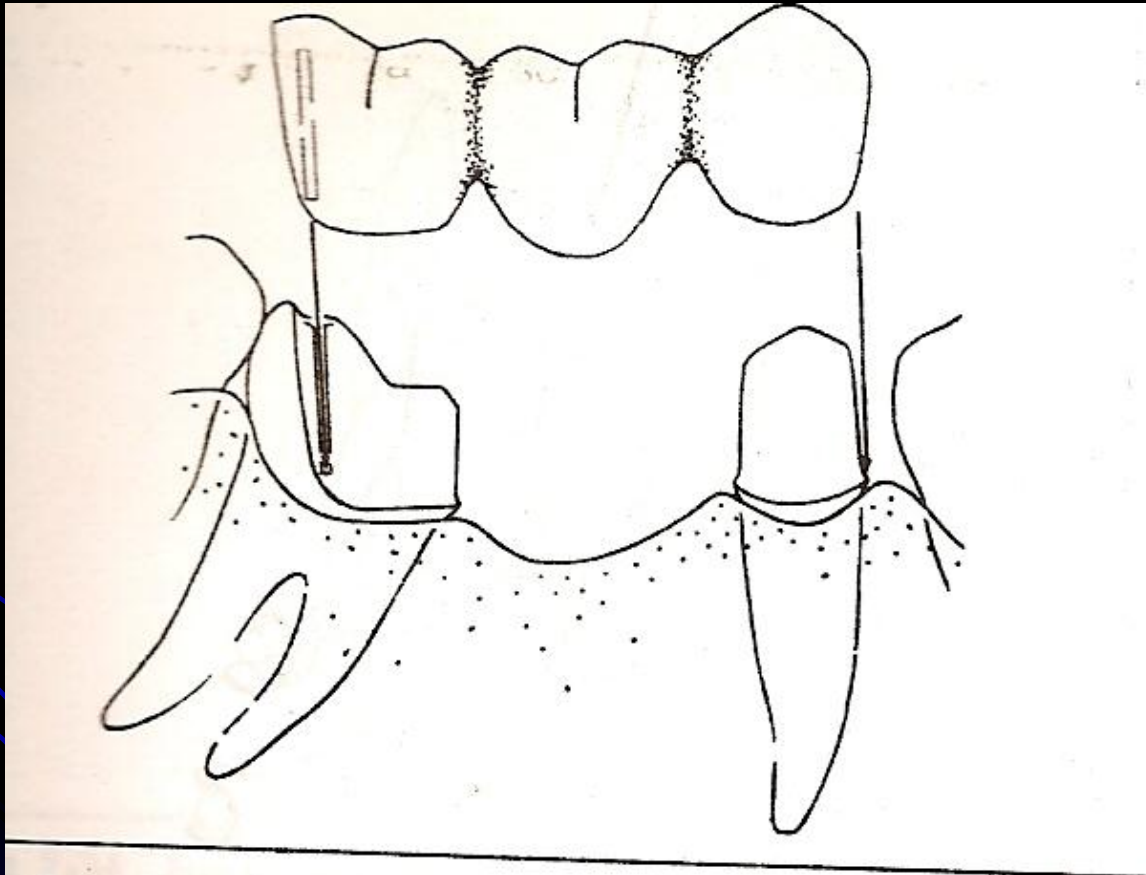


17 Finishing the upper prosthesis

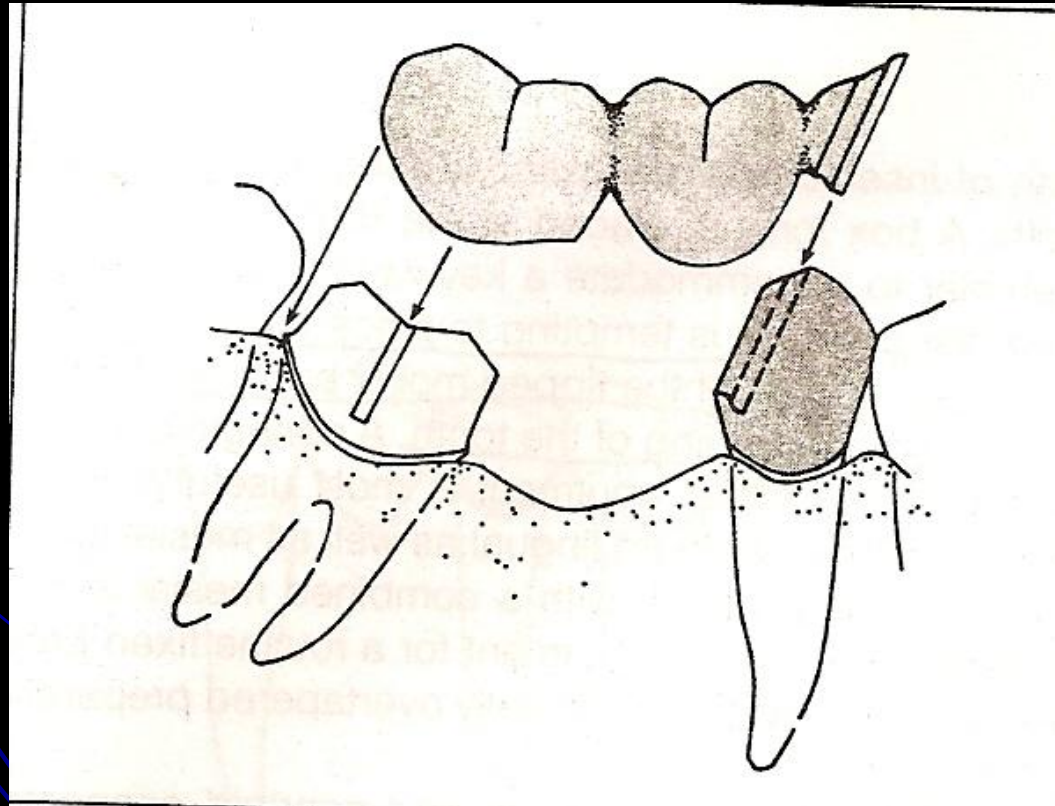


18 Panoramic view

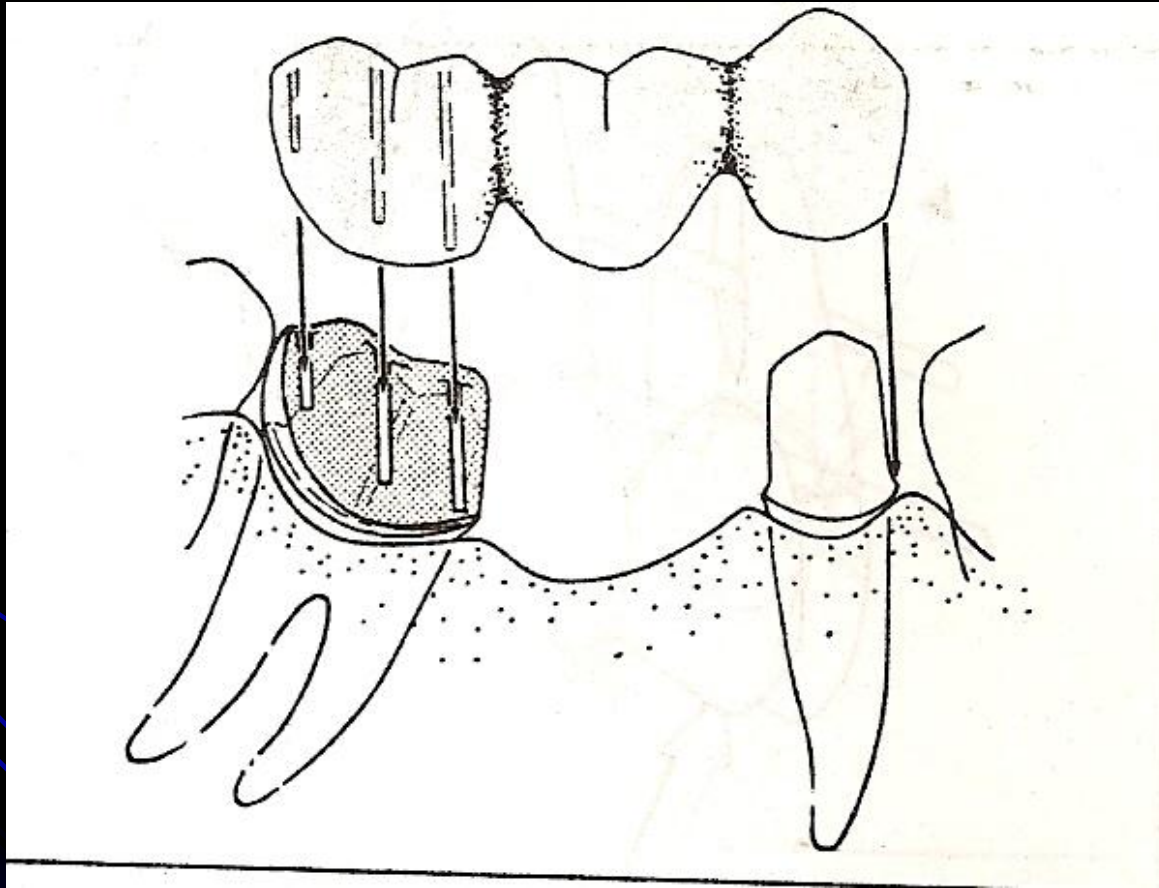
2- Change of bridge design $\frac{1}{2}$ crown on tilted molar and path of insertion with premolar



Non-rigid connector on distal aspect of premolar with the path of insertion with the molar



Telescopic crown on molar then conventional FPD



Root Portion & Periodontal Condition

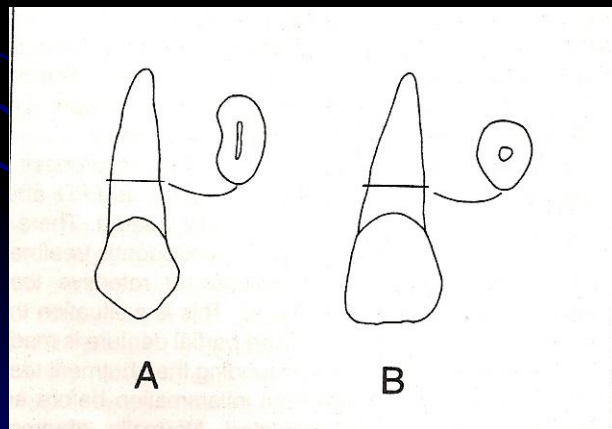
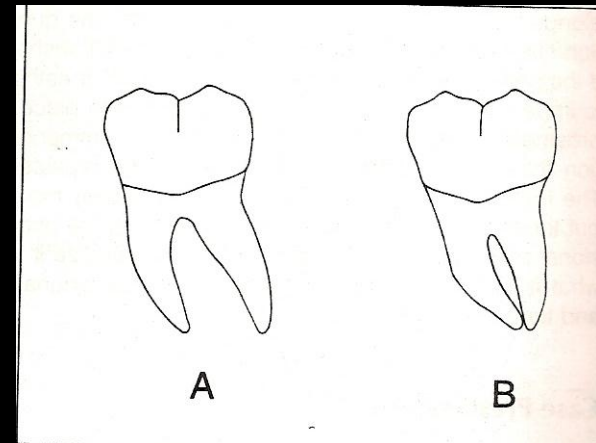
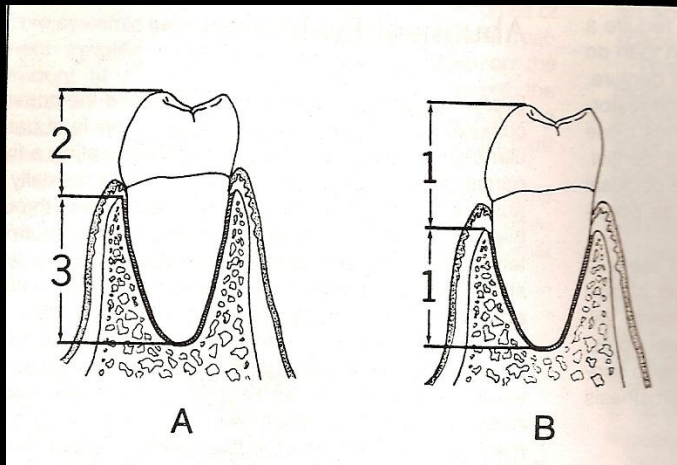
1) Crown/Root ratio (alveolar crest)

Optimum 2:3 Accepted 1:1

Fav opp occlusion; healthy peridontium; highly motivated pt; fav rt configuration

2) Root shape & angulation

- Broad FL > MD; seperated > fused;
Elliptical > round; aligned > tilted



3) Periodontal ligament surface area

Ante's Law:

